

Title (en)
NEEDLE POSITIONING APPARATUS

Title (de)
NADELPOSITIONIERUNGSVORRICHTUNG

Title (fr)
APPAREIL DE POSITIONNEMENT D'AIGUILLE

Publication
EP 3190996 A4 20180425 (EN)

Application
EP 15839237 A 20150911

Priority
• US 201462049920 P 20140912
• US 2015049714 W 20150911

Abstract (en)
[origin: US2016074063A1] A positioning apparatus including a needle holder having a through hole for regulating needle placement and movement, a needle positioning unit, and an engagement member that fixes a position of the needle holder with respect to the needle positioning unit. The needle holder is either least partially detachably attached to the needle positioning unit or deformable. The positioning apparatus may be designed to accommodate the placement of multiple needles.

IPC 8 full level
A61B 17/062 (2006.01); **A61B 17/34** (2006.01); **A61B 90/00** (2016.01)

CPC (source: EP US)
A61B 5/055 (2013.01 - US); **A61B 10/0233** (2013.01 - EP US); **A61B 90/11** (2016.02 - EP US); **A61B 2017/00911** (2013.01 - EP US); **A61B 2017/3409** (2013.01 - EP US); **A61B 2090/374** (2016.02 - EP US); **A61B 2090/3954** (2016.02 - EP US)

Citation (search report)
• [XYI] US 5682892 A 19971104 - SELDER OTTO R A M [NL], et al
• [XYI] US 2014128881 A1 20140508 - TYC RICHARD [CA], et al
• [YA] US 2007191867 A1 20070816 - MAZZOCCHI RUDY A [US], et al
• [YA] EP 2193750 A1 20100609 - SUMITOMO BAKELITE CO [JP], et al
• [XA] US 2014018822 A1 20140116 - MAIN DAVID [GB]
• [XA] US 4883053 A 19891128 - SIMON MORRIS [US]
• See references of WO 2016040817A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
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DOCDB simple family (application)
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